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(ENG) CONTINUOUS POLYMERIZATION OF OLEFIN

Assignee: MITSUI PETROCHEMICAL IND

[no drawing available]

Inventor(s): YOSHITAKE JUNICHI ; NAGAMATSU
SHIGEKI ; ODA HIDEKUNI

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Abstract: (ENG) <sec>PURPOSE: To produce a polyolefin having improved slurry properties, by polymerizing an olefin in the presence of a catalyst consisting of a highly active Ti component and an organoaluminum compound component in a multistage polymerization process under specific conditions. CONSTITUTION: An olefin is polymerized in the presence of a catalyst consisting of a highly active catalyst component consisting essentially of Mg, Ti and halogen and an organoaluminum compound component in a polymerization apparatus consisting of three or more polymerizers, in which two or more polymerizers are connected in series in a multistage continuous polymerization process. In the process, a catalyst prepared by prepolymerizing a 3W6C α-olefin in a hydrocarbon medium is used to polymerize 0.1W5wt%, based on the total olefin, olefin in one or more steps in the process and to give an ultrahigh- molecular weight polyolefin having >15dl/g intrinsic viscosity [η]_u</sb>. The residual olefin is polymerized in the other steps in the presence of hydrogen to afford the polyolefin having respectively different intrinsic viscosities [η]_u</sb>.</sec>

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